

## CLAIMS

What is claimed is:

1           **1.**     An aerial video camera system comprising:  
2                     a camera having electronic control by a universal-control computer that  
3 is positioned predeterminedly in an aircraft;  
4                     the camera being attached to a pan-tilt head that is suspended rigidly  
5 from a base plate in a camera pod;  
6                     a linear giro and a lateral giro affixed to the base plate for universal  
7 damping of vibration from the aircraft;  
8                     the vibration from the aircraft being absorbed by a resilient mount  
9 intermediate the base plate and the camera pod that is attached to the aircraft;  
10                    a transparent radome that is articulated and extended downwardly from  
11 a bottom of the camera pod for housing swivel panning and tilting view for the  
12 camera; and  
13                    electronic-control communication having control lines intermediate the  
14 universal-control computer, the camera and the pan-tilt head.

1           **2.**     The aerial video camera system of claim 1 wherein:  
2                     the camera includes a digital camera from which a field of view of  
3 optical signal is transmitted to and shown on a monitor of the universal-control  
4 computer and available for recording and broadcasting.

1           **3.**     The aerial video camera system of claim 1 wherein:  
2                     the camera pod includes an attachment bracket that is articulated for  
3 attaching the camera to the aircraft with a wing-strut bolt proximate a junction of  
4 a bottom member of a lift wing and a wing strut of the aircraft.

1           **4.**     The aerial video camera system of claim 3 wherein:  
2                     the attachment bracket includes articulation for supporting the camera  
3 on a predetermined aircraft-camera support.

1           **5.**     The aerial video camera system of claim 1 wherein:  
2                     swivel panning of the camera on the pan-tilt head is horizontally  
3 rotational.

1           **6.**     The aerial video camera system of claim 1 wherein:  
2                     the camera pod includes a predeterminedly aerodynamic surface having  
3 an arcuate-airfoil forward portion, a pointedly narrow aft portion and the attachment  
4 bracket extended upwardly from a top surface; and  
5                     the attachment bracket is sized and shaped to receive a portion of the  
6 wing-strut bolt.

1           **7.**     The aerial video camera system of claim 1 wherein:  
2                   the resilient mount includes counter-resilient fasteners having counter-  
3 resilient support of the base plate on the camera pod;  
4                   the counter-resilient fasteners have top ends supported by a top of the  
5 camera pod and bottom ends positioned in support of a bottom resilient member  
6 under a bottom side of the base plate; and  
7                   a top resilient member is positioned intermediate the camera pod and  
8 the base plate.

1           **8.**     The aerial video camera system of claim 1 wherein:  
2                   the universal-control computer includes joystick control of horizontally  
3 panning and vertically tilting of the camera on the pan-tilt head with a joystick.

1           **9.**     The aerial video camera system of claim 1 wherein:  
2                   the universal-control computer includes toggle-switching of power on  
3 and off with a toggle switch as indicated with a power LED.

1           **10.**    The aerial video camera system of claim 1 wherein:  
2                   the universal-control computer includes control of camera speed with  
3 a speed knob.

1           **11.**   The aerial video camera system of claim 1 wherein:  
2                   the universal-control computer includes control of a plurality of camera  
3 features of the camera and the digital camera with predetermined pushbuttons.

1           **12.**   The aerial video camera system of claim 11 wherein:  
2                   the plurality of camera features include focus and zoom.

1           **13.**   An aerial video camera system comprising:  
2                   a camera having electronic control by a universal-control computer that  
3 is positioned predeterminedly in an aircraft;  
4                   a transparent radome that is articulated and extended downwardly from  
5 the camera pod for housing swivel panning and tilting view for the camera; and  
6                   electronic-control communication having control lines intermediate the  
7 camera and the universal-control computer.

1           **14.**   The aerial video camera system of claim 13 wherein:  
2                   the camera is attached to the pan-tilt head that is suspended rigidly from  
3 the base plate;  
4                   the linear giro and the lateral giro are affixed to the base plate for  
5 universal damping of vibration from the aircraft; and  
6                   the vibration from the aircraft is absorbed by the resilient mount  
7 intermediate the base plate and the camera pod that is attached to the aircraft.

1           **15.**   The aerial video camera system of claim **14** wherein:  
2                   the resilient mount includes counter-resilient fasteners having counter-  
3 resilient support of the base plate on the camera pod;  
4                   the counter-resilient fasteners have top ends supported by a top of the  
5 camera pod and bottom ends positioned in support of a bottom resilient member  
6 under a bottom side of the base plate; and  
7                   a top resilient member is positioned intermediate the camera pod and  
8 the base plate.

1           **16.**   The aerial video camera system of claim **13** wherein:  
2                   the camera includes a digital camera from which a field of view of  
3 optical signal is transmitted to and shown on a monitor of the universal-control  
4 computer and available for recording and broadcasting.

1           **17.**   The aerial video camera system of claim **13** wherein:  
2                   the camera pod includes an attachment bracket that is articulated for  
3 attaching the camera to the aircraft with a wing-strut bolt proximate a junction of  
4 a bottom member of a lift wing and a wing strut of the aircraft.

1           **18.**   The aerial video camera system of claim **13** wherein:  
2                   swivel panning of the camera on the pan-tilt head is full-circle  
3 horizontally rotational.

1           **19.**   The aerial video camera system of claim **13** wherein:  
2                   the universal-control computer includes joystick control of horizontally  
3   panning and vertically tilting of the camera on the pan-tilt head with a joystick.

1           **20.**   The aerial video camera system of claim **19** wherein:  
2                   the universal-control computer includes control of a plurality of camera  
3   features of the camera.

1           **21.**   The aerial video camera system of claim **20** wherein:  
2                   the plurality of camera features include on-off switching, camera speed  
3   camera focus and camera zoom.